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(54) QUICK RECOVERING POLYTETRAFLUOROETHYLENE AND MANUFACTURE OF THIS MATERIAL

(57)Abstract:

PURPOSE: To improve recovering property of dimensional directions by extruding a mixture of PTFE and a liquid lubricant followed by vertically drawing, expanding it after removing the lubricant, and compressing and fixing it in fibril direction.

CONSTITUTION: A preliminarily molded billet formed of a mixture of coagulated body of PTFE and a liquid lubricant is extruded in tube, rod or film form, and vertically drawn 50% or lower while keeping a temperature between 35°C and the crystal melting point, and the liquid lubricant is removed to provide a porous molded product. This molded product is then expanded, compressed in the direction for reducing its size, and fixed by heating to provide a porous molded product having a minute structure of node connected by fibril and a quick recovering property of 5.5% or more.

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